

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): ~~Process~~ A process for producing dichloropropanol, according to which glycerol is subjected to a reaction with a chlorinating agent, with the exception of a reaction carried out in the presence of acetic acid or its derivatives.

Claim 2 (Currently Amended): ~~Process~~ The process according to claim 1, wherein the reaction is carried out continuously.

Claim 3 (Currently Amended): ~~Process~~ The process according to claim 1 ~~or 2~~, wherein the chlorinating agent comprises substantially anhydrous hydrogen chloride.

Claim 4 (Currently Amended): ~~Process~~ The process according to claim 1 ~~or 2~~, wherein the chlorinating agent is an aqueous solution of hydrogen chloride with a hydrogen chloride content higher than or equal to 4 % by weight, ~~preferably higher than or equal to 20 % by weight, and most preferably higher than or equal to 30% by weight.~~

Claim 5 (Currently Amended): ~~Process~~ The process according to any of ~~claims 1 to 4~~ claim 1, wherein the reaction is carried out in the liquid phase.

Claim 6 (Currently Amended): ~~Process~~ The process according to ~~any of claims 1 to 5~~ claim 1, wherein ~~[[,]]~~ a carboxylic acid, a carboxylic acid anhydride, a carboxylic acid chloride, a carboxylic acid salt or a carboxylic acid ester ~~preferably having an atmospheric boiling point of greater than or equal to 200°C,~~ is used as the catalyst.

Claim 7 (Currently Amended): ~~Process~~ The process according to claim 6,
wherein[[,]] the catalyst is adipic acid, adipic acid anhydride, adipic acid chloride, adipic acid
salt or adipic acid ester.

Claim 8 (Currently Amended): ~~Process~~ The process according to claim 6, ~~or 7~~
wherein the acid concentration in the reaction medium expressed in mole of acid and of acid
esters derivatives per kg of liquid reaction medium is higher than or equal to 0.1 and lower
than or equal to 10.

Claim 9 (Currently Amended): ~~Process~~ The process according to ~~any of claims 1 to 8~~
claim 1, wherein the reaction is carried out in the presence of at least one organic solvent.

Claim 10 (Currently Amended): ~~Process~~ The process according to claim 9, wherein
the solvent comprises chloropropanediol and/or dichloropropanol and/or heavy by-products
of the reaction.

Claim 11 (Currently Amended): ~~Process~~ The process according to ~~any of claims 1 to~~
~~10~~ claim 10, wherein the water concentration in the reaction mixture is lower than or equal to
15% by weight.

Claim 12 (Currently Amended): ~~Process~~ The process according to ~~any of claims 1 to~~
~~11~~ claim 1, wherein reaction conditions are adjusted in such a way that the concentration of
hydrogen chloride in the gas phase above the liquid reaction mixture remains lower than the
concentration of hydrogen chloride in the binary azeotropic hydrogen chloride-water mixture.

Claim 13 (Currently Amended): ~~Process~~ The process according to ~~any of claim 1 to 12, in which~~ claim 1, wherein continuous or periodic withdrawal of a fraction comprising at least water with a hydrogen chloride content equal to or less than 10% by weight relative to the total weight of the fraction comprising water and optionally dichloropropanol is carried out, and the reaction medium is optionally fed with water, ~~in particular with steam~~.

Claim 14 (Currently Amended): ~~Process~~ The process according to ~~any of claims 1 to 13~~ claim 1, wherein the reaction is carried out in a reactor made of materials that are resistant, under the conditions of reaction, to the chlorinating agent and are selected from the group consisting of enamelled enameled steel, polymers, coatings by means of resins, metals or alloys, ceramics and metalloceramics and refractory materials.

Claim 15 (Currently Amended): ~~Process~~ The process ~~Process for producing dichloropropanol~~ according to ~~any of claims 1 to 14~~ claim 1, wherein a reactor (20) is fed, in a continuous or batch mode, with glycerol via a first line (21) and catalyst via a second line (22), the feed of hydrogen chloride, anhydrous or in aqueous solution, is carried out continuously or in batch-mode via a third line (23), a distillation column (30) is fed via a fourth line (24) with ~~vapour~~ vapor produced from the reactor (20), a stream is withdrawn from the distillation column (30) via a fifth line (26) and optionally fed to a decantor (31) in which aqueous and organic phases are separated.

Claim 16 (Currently Amended): ~~Process~~ The process ~~Process for producing dichloropropanol~~ according to ~~any of claims 1 to 15~~ claim 1, wherein a reactor (33) is continuously or batch fed with glycerol via a first line (41) and catalyst via a second line (42), the feed of hydrogen chloride, anhydrous or in aqueous solution, is carried out continuously

or in batch-mode through a third line (43), a distillation column (42) is fed via a fourth line (34) with the ~~vapour~~ vapor produced from reactor (33), the residue from the distillation column (42) is recycled via a fifth line (35) to the reactor (33), a purge from the reactor bottom is fed via a sixth line (37) into a stripper (44)-wherein a partial stripping operation is carried out ~~e.g. by heating or by gas sweeping with nitrogen or steam~~, the gas phase containing most of the hydrogen chloride from a stream (37) is recycled via line (38) to the distillation column (42) or via line (45) to the reactor (33), a distillation or stripping column (43) is fed with the liquid phase arising from the stripper (44) via a seventh line (39), the main fraction of dichloropropanol is collected from the top of the column through an eighth line (40) and the column residue is recycled via a nine line (41) to the reactor (33).

Claim 17 (Currently Amended): ~~Process~~ The process according to ~~any of claims 15 to 16~~ claim 15, wherein

- (a) a liquid phase is withdrawn from the reactor (20) or (33);
- (b) ~~a, preferably azeotropic,~~ hydrogen chloride/water mixture is added to the liquid phase and the resulting mixture is then heated; and
- (c) the acid is recovered from this resulting mixture, ~~for example by crystallization and optionally recycled to reactor (20) or (33).~~

Claim 18 (Currently Amended): ~~Process~~ The process according to claim 17, wherein water is added to the resulting mixture from step (b) and the acid catalyst is recovered by crystallization and recycled to the reactor ~~(20) or (33)~~.

Claim 19 (Currently Amended): ~~Process~~ The process according to ~~anyone of claims 1 to 18~~ claim 1, wherein 1,3-dichloropropan-2-ol is obtained with a selectivity of at least 50%.

Claim 20 (Currently Amended): ~~Process~~ The process according to ~~anyone of claims 1 to 19~~ claim 1, wherein the glycerol used has at least partially been produced from renewable raw materials.

Claim 21 (Currently Amended): ~~Pseudo~~ A pseudo-azeotropic composition consisting essentially of dichloropropanol, hydrogen chloride and water.

Claim 22 (Currently Amended): ~~Process~~ A process ~~Process~~ for producing organic compounds comprising

- (a) a first step wherein glycerol is produced from renewable raw materials; and
- (b) a second step wherein organic compounds are produced from glycerol obtained in the first step.

Claim 23 (Currently Amended): ~~Process~~ The process according to claim 22, wherein the glycerol used in the second step is a crude product comprising besides, water and a metal salt, ~~preferably selected from NaCl, KCl, sodium sulfate and potassium sulfate.~~

Claim 24 (Currently Amended): ~~Process~~ The process according to claim 23, wherein the crude product comprises from 40 to 99 % by weight of glycerol, from 5 to 50% by weight of water and from 1 to 10 % by weight of metal salt.

Claim 25 (Currently Amended): ~~Process~~ The process according to claim 22, wherein the glycerol used during the second step is a purified product.

Claim 26 (Currently Amended): ~~Process~~ The process according to claim 25, wherein the purified product ~~contains~~ comprises from 80 to 99.9 % by weight of glycerol and from 0.1 to 20 % by weight of water.

Claim 27 (Currently Amended): ~~Process~~ The process according to ~~any of claims 22 to 26~~ claim 22, wherein the glycerol is obtained by conversion of animal fats or has been obtained during the manufacture of biodiesel.

Claim 28 (Currently Amended): ~~Integrated process of production~~ The process according to claim 27 according to which

(a) a plant oil is subjected to a trans-esterification reaction with an alcohol other than glycerol, preferably methanol or ethanol, so as to recover at least biodiesel and a crude product containing glycerol;

(b) the crude product is optionally subjected to a purification operation such as distillation; and

(c) glycerol formed in step (a) is subjected to the process for producing an organic compound.

Claim 29 (Currently Amended): ~~Process~~ The process according to claim 28, according to which the steps of production of glycerol and of production of the organic compound are carried out on the same production site.

Claim 30 (Currently Amended): ~~Process~~ The process according to claim 28, according to which the steps of production of glycerol and of production of the organic compound are carried out on different production sites.

Claim 31 (Currently Amended): ~~Process~~ A process for producing epichlorohydrin wherein

(a) dichloropropanol is produced in accordance with a process according to ~~anyone of claims 1 to 30;~~ claim 1;

(b) at least one fraction of the obtained dichloropropanol is subjected to a dehydrochlorination reaction.

Claim 32 (Currently Amended): ~~Process~~ The process according to ~~any of claims 22 to 31~~ claim 22, wherein[[,]] glycerol is contacted with at least one condensing agent or with epichlorohydrin, possibly in the presence of a base, and polyglycerol is obtained.

Claim 33 (Currently Amended): ~~Process~~ A process for producing epoxy resins according to which epichlorohydrin derived from the process according to claim 31 is used as starting material.

Claim 34 (Currently Amended): ~~Process~~ A process for producing epoxy resins wherein dichloropropanol containing at least 50% by weight of 1,3-dichloropropane-2-ol relative to the total dichloropropanol is used as the starting material.

Claim 35 (Currently Amended): ~~Process~~ The process according to claim 6, wherein[[,]] the catalyst is a dicarboxylic acid, a dicarboxylic acid anhydride, a dicarboxylic acid chloride, a dicarboxylic acid salt or a dicarboxylic acid ester.

Claim 36 (Currently Amended): ~~Process~~ A process for separation of a mixture containing at least water, dichloropropane and hydrogen chloride wherein the mixture is separated in a distillation step wherein the sum of materials fed to said distillation step has a hydrogen chloride concentration which is lower than the hydrogen chloride concentration in the binary azeotropic composition hydrogen chloride/water at the pressure of the distillation.